

October 1, 2002

Michelle R. McCracken  
Environmental Representative  
Shell Oil Products US, East Chicago Terminal  
P. O. Box 2648, TSP 15  
Houston TX 77252-2648

Re: 089-15946-00239  
First Minor Source Modification to:  
Part 70 permit No.: T089-7323-00239

Dear Ms. McCracken:

Shell Oil Products US, East Chicago Terminal was issued Part 70 operating permit T089-7323-00239 on March 4, 1998 for a Bulk Petroleum Storage and Terminal. An application to modify the source was received on July 26, 2002. Pursuant to 326 IAC 2-7-10.5 the following emission units are approved for construction at the source:

- (b) Storage Vessel Tank No. D-2 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.
- (c) Storage Vessel Tank No. D-3 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.

The following construction conditions are applicable to the proposed project:

- 1. General Construction Conditions  
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
- 2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
- 3. Effective Date of the Permit  
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
- 4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.
6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

The proposed operating conditions applicable to these emission units are attached to this minor source modification approval. These proposed operating conditions shall be incorporated into the Part 70 operating permit as a significant permit modification in accordance with 326 IAC 2-7-12.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter call (219) 853-6306 and ask for Ronald Holder.

Sincerely,

Ronald L. Novak, Director  
Hammond Department of Environmental Management  
Air Pollution Control Division

Attachments

RH

cc: IDEM-OAQ – Permits Administration – Mindy Hahn

# **PART 70 MINOR SOURCE MODIFICATION**

**Indiana Department of Environmental Management  
Office of Air Quality**

**and**

**Hammond Department of Environmental Management  
Air Pollution Control Division**

**Shell Oil Products US, East Chicago Terminal  
2400 Michigan Street  
Hammond, Indiana 46320**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this approval.

This approval is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Minor Source Modification No.: 089-15946-00239	
Issued by:	Issuance Date: October 1, 2002
Ronald L. Novak, Director Hammond Department of Environmental Management	

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## SECTION A

## SOURCE SUMMARY

This approval is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and the Hammond Department of Environmental Management (HDEM). The information describing the emission units contained in conditions A.1 through A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this approval pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary Bulk Petroleum Storage and Terminal.

Responsible Official: T. J. Rizzoli, Midwest Region Manager  
Source Address: 2400 Michigan Street, Hammond, Indiana 46320  
Mailing Address: 30 West Jefferson, Naperville, IL 60540  
SIC Code: 5171 – Petroleum Bulk Stations & Terminals  
County Location: Lake

County Status: Attainment for Lead, CO and NO<sub>2</sub>, and  
Non-Attainment for all other criteria pollutants including ozone

Source Status: Part 70 Permit Program  
Major Source, under Emission Offset Rules  
Major Source, Section 112 of the Clean Air Act

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source is approved to construct and operate the following emission units and pollution control devices:

- (a) Storage Vessel Tank No. D-2 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.
- (b) Storage Vessel Tank No. D-3 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.

### A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This modification does not include any insignificant activities, as defined in 326 IAC 2-7-1(21).

### A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because it is a major source, as defined in 326 IAC 2-7-1(22).

## **SECTION D.1 FACILITY OPERATION CONDITIONS**

Storage Tanks D-2 and D-3, with the following specifications:

- (a) Storage Vessel Tank No. D-2 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.
- (b) Storage Vessel Tank No. D-3 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.

### **Emission Limitations and Standards [326 IAC 2-7-5(1)]**

#### **D.1.1 Volatile Organic Compounds (VOC)**

These internal floating roof storage vessels shall comply with the standards outlined in 326 IAC 12, 40 CFR 60.112b(a)(1) and 326 IAC 8-4-3(b).

#### **D.1.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

A Preventive Maintenance Plan is required for this facility and any control devices.

### **Compliance Determination Requirements**

#### **D.1.3 Monitoring - Testing and Procedures Equipment (Visual Inspection, Repair, and Notification)**

- (a) The internal floating roof storage vessel shall comply with the following testing and procedures requirements (visual inspections, repairs, notifications) of 326 IAC 12, 40 CFR 60.113b.
- (b) Pursuant to 326 IAC 12, 40 CFR 60.113b, a visual inspection should be made of the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the vessel with VOL. For storage vessels equipped with a liquid-mounted or mechanical shoe primary seal, visual inspections should be performed annually. For vessels equipped with both primary and secondary seals, a visual inspection should be performed at least every five (5) years.
- (c) Pursuant to 326 IAC 12, 40 CFR 60.115b(a)(3), if during the required annual visual inspection, the internal floating roof is not resting on the surface of the VOL, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the vessel from service within forty-five (45) days. Records of such incidents shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the following:
  - 1) The vessel by identification number

- 2) The nature of the defects
- 3) The date the vessel was emptied or the nature of and date the repair was made.

**Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

D.1.4 There are no compliance monitoring requirements for this facility.

**Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

D.1.5 Record Keeping and Reporting Requirements (Tank Inspections)

- (a) The internal floating roof storage vessel shall comply with the following record keeping and reporting requirements as outlined in 326 IAC 12, 40 CFR 60.115b(a)(2).
- (b) Pursuant to 326 IAC 12, 40 CFR 60.115b(a)(2), a record of each inspection performed shall be maintained and shall identify the following:
  - 1) The vessel inspected by identification number.
  - 2) The date the vessel was inspected.
  - 3) The observed condition of each component of the control equipment, including the following: seals, internal floating roof, and fittings.

D.1.6 Record Keeping and Reporting Requirements (Product Storage)

- (a) The internal floating roof storage vessel shall comply with the following record keeping and reporting requirements as outlined in 326 IAC 12, 40 CFR 60.116b(c), Subpart Kb and 326 IAC 8-4-3(d).
- (b) Pursuant to 326 IAC 12, 40 CFR 60.116b(c), Subpart Kb and 326 IAC 8-4-3(d), records of the petroleum liquid stored, the period of storage and the maximum true vapor pressure of that liquid as stored during the respective storage period shall be maintained for a minimum period of two (2) years and made available upon request by IDEM-OAM or HDEM.

D.1.7 Reporting Requirements

A report of any defects (the internal floating roof not resting on the surface of the VOL, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric) discovered shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the vessel identification number, the nature of the defects, and the date the vessel was emptied or the nature of and date the repair was made.